

AMENDMENTS TO THE CLAIMS

Claims 1-17. (canceled)

¹
Claim ~~18~~. (currently amended) A data processing apparatus for processing input data and outputting the processed data, comprising:

- data processor configured to process the input data by a predetermined processing method and output the processed data as output data;
- input-data evaluator configured to evaluate the input data and calculate a reliability of the input data;
- output-data evaluator configured to evaluate the output data and calculate a reliability of the output data, and
- real-time learning portion consisting of a single component configured to learn the processing method in real time using the reliability of the input data calculated by said input-data evaluator and the reliability of the output data calculated by said output-data evaluator and control the data processor to process the input data according to the learned processing method.

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¹ Claim ~~19~~. (previously presented) A data processing apparatus according to Claim ~~18~~, further comprising an input-data storage unit for storing a predetermined number of time-sequentially input data.

³
² Claim ~~20~~. (previously presented) A data processing apparatus according to Claim ~~19~~, wherein said input-data evaluator calculates a dispersion of the predetermined number of the

input data stored by said input-data storage unit and evaluates current input data according to the dispersion.

⁴
Claim 21. (previously presented) A data processing apparatus according to Claim 219, wherein said input-data evaluator calculates an average of the predetermined number of the input data stored by said input-data storage unit, and evaluates current input data according to an error of each input data against the average.

⁵
Claim 22. (previously presented) A data processing apparatus according to Claim 219, wherein said input-data evaluator calculates a dispersion and an average of the predetermined number of the input data stored by said input-data storage unit; obtains an error of each input data against the average; and evaluates current input data according to the dispersion and the error.

Claim 23. (canceled)

⁶
Claim 24. (previously presented) A data processing apparatus according to Claim 118, further comprising an output-data storage unit for storing the output data, wherein said data processor adds previous output data stored by said output-data storage unit and current input data to obtain the output data corresponding to the current input data.

⁷
Claim ~~25~~. (previously presented) A data processing apparatus according to Claim
~~6~~ ²⁴, wherein said real-time learning portion learns a predetermined weight coefficient according
to the evaluation of the input data and the evaluation of the output data, and
said data processor obtains the output data corresponding to the current input data
according to the weight coefficient.

⁸
Claim ~~26~~. (currently amended) A data processing method for processing input data
and outputting the processed data, comprising the steps of:

processing the input data by a predetermined processing method and outputting
the processed data as output data;

evaluating the input data and calculating a reliability of the input data;

evaluating the output data and calculating a reliability of the output data, and

learning the processing method in real time in a single component using the
reliability of the input data calculated in the input-data evaluation step and the reliability
of the output data calculated in the output-data evaluation step, and the input data is
processed in the data processing step by the learned processing method.

⁹
Claim ~~27~~. (previously presented) A data processing method according to Claim ~~26~~ ⁸,
further comprising the step of storing a predetermined number of time-sequentially input data.

¹⁰
Claim ~~28~~. (previously presented) A data processing method according to claim ~~27~~ ⁹,
wherein, in the input-data evaluation step, a dispersion of the predetermined number of the input

data stored in the input-data storage step is calculated and current input data is evaluated according to the dispersion.

¹¹
Claim 29. (previously presented) A data processing method according to Claim ⁹27, wherein, in the input-data evaluation step, an average of the predetermined number of the input data stored in the input-data storage step is calculated, and current input data is evaluated according to an error of each input data against the average.

¹²
Claim 30. (previously presented) A data processing method according to Claim ⁹27, wherein, in the input-data evaluation step, a dispersion and an average of the predetermined number of the input data stored in the input-data storage step are calculated; an error of each input data against the average is obtained; and current input data is evaluated according to the dispersion and the error.

Claim 31. (canceled)

¹³
Claim 32. (previously presented) A data processing method according to Claim ⁹26, further comprising the step of storing the output data, wherein, in the data processing step, previous output data stored in the output-data storage step and current input data are added to obtain the output data corresponding to the current input data.

¹⁴
Claim ~~33~~. (previously presented) A data processing method according to Claim ~~32~~,¹³

wherein a predetermined weight coefficient is learned according to the evaluation of the input data and the evaluation of the output data in the real-time learning step, and

the output data corresponding to the current input data is obtained according to the weight coefficient in the data processing step.

¹⁵
Claim ~~34~~. (currently amended) A storage medium storing a computer-controllable program for processing input data and outputting the processed data, the program comprising the steps of:

processing the input data by a predetermined processing method and outputting the processed data as output data;

evaluating the input data and calculating a reliability of the input data;

evaluating the output data and calculating a reliability of the output data, and

learning the processing method in real time in a single component using the reliability of the input data calculated in the input-data evaluation step and the reliability of the output data calculated in the output-data evaluation step, and the input data is processed in the data processing step by the learned processing method.